



AVA3013 ^{3KW} ^{13.56MHZ}

PULSED RF GENERATOR WITH AUTO FREQUENCY TUNING





Model	AVA3013
Center Frequency	13.56 MHz
Tuning Range	±5%
Load Impedance	50 Ohm
Max Forward Power	3000 Watt
Max Reflected Power	600 W
Power Regulation	Forward power, load power, DC bias (process)
Power Regulation	±2% of setpoint, or ±3W (whichever is greater)
Harmonics	<= -40 dBc(50-Ohm load)
Spurious	<=-45 dBc
Efficiency, AC to RF output	>65% (typical)
Pulsing	Two level (digital or analog)
Pulse Synchronization	pulse-in SMA(F), pulse-out SMA(F)
Minimum Pulse Width	50 µsec
Pulse PRF	100 Hz –20 kHz
Pulse Duty Cycle	1% -99%
Pulse Rise Time	< 4 µsec
Pulse Fall Time	< 0.2 µsec
Interface	RS232, 25 pin Analog
Interface Options	Ethernet, EtherCAT, Profibus and DeviceNet
Cooling	Water and Air
Ambient Air Temperature	25°C ±10°C
Inlet Water Temperature	25°C ±5°C

**THE AVA 3013
IS AVAILABLE
IN TWO
CONFIGURATIO
NS, STANDARD
OR ADVANCED.**

**ANALOGIC IS
DEDICATED TO
CONTINUAL
INNOVATION,
BRINGING THE
LATEST IN
RESEARCH AND
EXPERIENCE TO
THE WORLD OF
POWER
AMPLIFIER
DESIGN.**

Specifications subject to change without notice



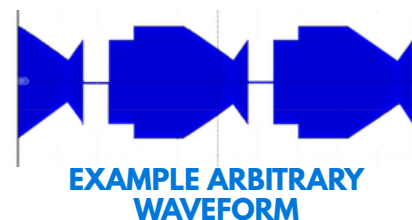
Min. Water Flow	2.5 GPM
Weight	<20 Kg (<44 lbs)
Dimensions	215.6 mm (W) X 402.6 mm (D) X 133.4 mm (H)
Clearance	7.6 cm front and back
Output Connector	N(F)
AC Line	187-228 VAC 3- ϕ , 50/60 Hz, 20A at 187VAC
AC Connector	Harting Han-Modular

ADDITIONAL ADVANCED MODEL SPECIFICATIONS

CEX input signal level	4 -10 dBm (sinusoidal or square pulse)
CEX output signal level	9 dBm $\pm$ 2dB, typical
CEX output phase adjustment	-180° to 180° with 1° resolution
Pulsing	Multi-Level, Arbitrary waveform pulsing, Programable arbitrary waveform
Auto Frequency Tuning	<1 ms of tuning time , CW or Pulse
HALO Max FWD Power	200 Watt
HALO Accuracy	$\pm$ 1.5% or $\pm$ 1 Watt, whichever is greater
Smoke Detector	Integrated smoke detector
Accessories: Water Flow Sensor	Optional external sensor

Worst Case Forward Power into Mismatch

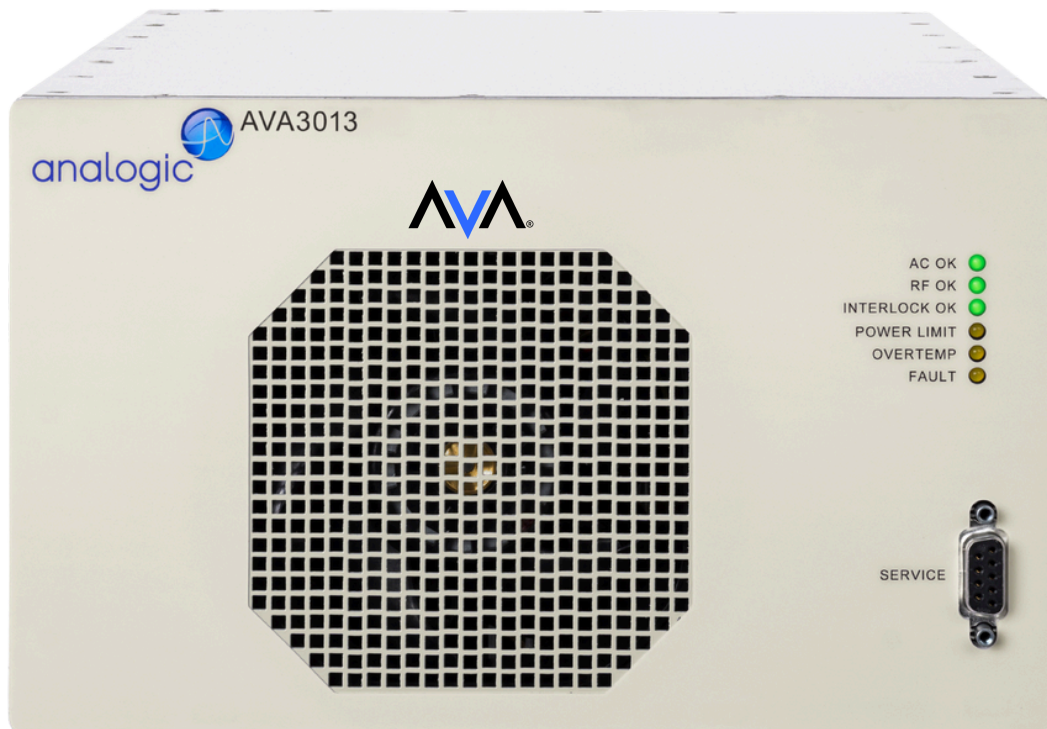
VSWR	Power
1.1:1	3000 W
2.0:1	1500 W
3.0:1	1000 W



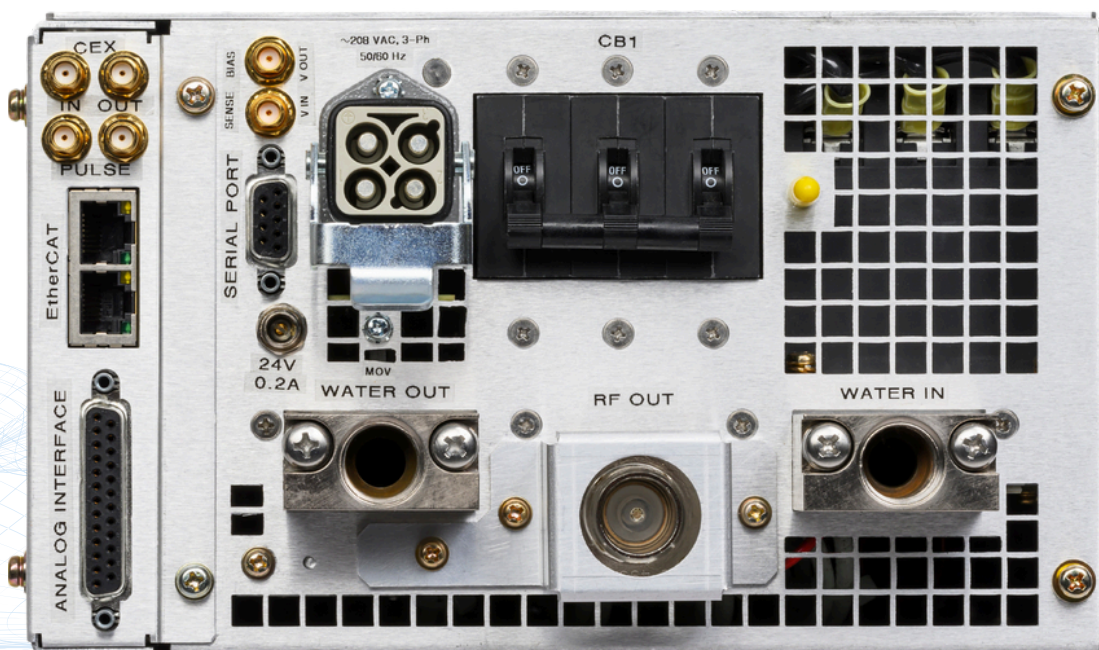
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AVA 3013 FRONT VIEW



AVA 3013 BACK VIEW





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